






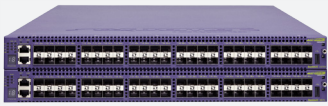



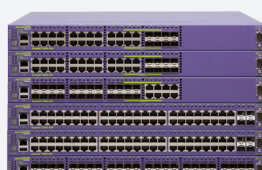








Extreme Products Pocket Guide




Modular		
Product Name and Role	Key Values	Key Differentiators
 <p>Black Diamond X8 Cloud Data Center, High Performance Computing, Internet Exchange Point</p>	<ul style="list-style-type: none"> High density/performance data center core/ EoR, HPC interconnect fabric, campus backbone, or IXP edge/core switch Impressive wire-speed port density supporting 1/10GE, 40GE and 100GE interfaces 1G to 10G (copper/fiber) server migration as EoE/MoR solution Unmatched performance with 20.48 Tbs capacity, 22.8B pps throughput Low-latency applications with 2.3uSec latency across fabric 	<ul style="list-style-type: none"> From 100MbE to 100GbE coverage High-density with wire-speed Low latency leader Tier 4 data center class availability with 1+1 control, N+1 fabrics, N+N power Orthogonal architecture with cost-effective Strata-XGS technology Lower TCO with only 5.6W/10G port power consumption Optimized for virtualization and convergence MLAG, limited ISSU and EAPS/ERPS support (~50ms failover) Unified, modular XOS operating system SDN, MPLS and DCBx support
 <p>S-Series Terabit-class Modular Switch Routers for Edge-to-Core and Data Center</p>	<ul style="list-style-type: none"> High-performance custom CoreFlow2 ASICs deliver up to 96 million flows for deep visibility and control without impacting performance Classify users, devices and applications; enforce access control and categorization policies associated with them for granular QoS functionality and predictable application performance Flexible architecture allows deployment from the network edge to core and data center, reducing deployment and maintenance costs and simplifying management 	<ul style="list-style-type: none"> Custom ASICs for unique CoreFlow2 features Multi-user authentication and policy at scale Programmable dataplane for future protocol support Application policy support Unsampled Netflow at Tbps speeds Network Address Translation and server load balancing at scale (NAT and LSNAT) GRE tunneling at Gbps speeds Versatile front-to-back and side-to-side airflow configuration options PoE+ support Unsampled NetFlow data on every port for complete visibility
 <p>K-Series Cost-effective Modular Switch with Premium Features for Enterprise Campus Edge-to-Small Core</p>	<ul style="list-style-type: none"> Engineered with the same Coreflow2 ASICs as the S-Series for deep visibility and control without impacting performance Versatile, high-density edge to small core switch Cost-effective, flow-based switching capabilities High performance/capacity in a small form factor for cost optimization 	<ul style="list-style-type: none"> Custom ASICs for unique CoreFlow2 features Multi-user authentication and policy at scale Programmable dataplane for future protocol support Application policy support Unsampled Netflow at Tbps speeds Network Address Translation and server load balancing at scale (NAT and LSNAT) GRE tunneling at Gbps speeds PoE+ support Unsampled NetFlow data on every port for complete visibility

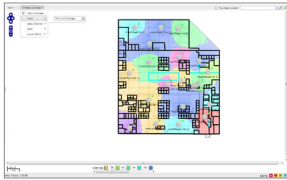
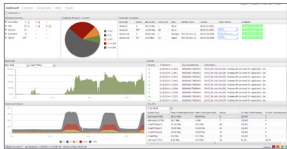

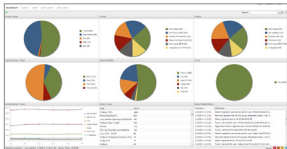
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 <p>Black Diamond 8000 Campus Edge/Core, Data Center or SP aggregation switch</p>	<ul style="list-style-type: none"> • Campus edge/core, data center edge/core or SP aggregation switch • Excellent cost-effective performance with 1GE, 10GE and 40GE interfaces • 3.8Tbps capacity with 2.8 Bpps throughput 	<ul style="list-style-type: none"> • From 10MbE to 40GbE coverage • High-density 1GbE and 10GbE connectivity with cost-effective 40GbE • Optional PoE • Versatile extensible backplane architecture with multiple cost/scale IO options • Cost-effective Strata-XGS technology • XL blades for internet connectivity • MLAG, limited ISSU and EAPS/ERPS support (~50ms failover) • SDN and MPLS support • Unified, modular XOS operating system
Fixed		
 <p>Summit X770 High-density ToR data center switch</p>	<ul style="list-style-type: none"> • High-density, low latency Top of Rack (ToR) switch with 32 x 40GE interfaces • Can support up to 104 ports of 10GE 	<ul style="list-style-type: none"> • Highest density in the industry • Low latency (less than 600ns) • 1588 PTP timing support • Designed to meet NEBS requirements • Optional DC power • Modular fans with reversible airflow • Heterogeneous stacking with other Summit switches • EAPS/ERPS support (~50ms failover) • VEPA and TRILL support • Unified, modular XOS operating system
 <p>Summit X670V Versatile ToR data center switch</p>	<ul style="list-style-type: none"> • Top of Rack (ToR) switch with 48 x 10GE fiber interfaces • Both copper and fiber options available 	<ul style="list-style-type: none"> • 40 GE uplinks • High density • Low latency (less than 920ns) • Copper model supports dual ports for either copper or fiber to address distance issues • MPLS support • Designed to meet NEBS requirements • Optional DC power • Modular fans with reversible airflow • Heterogeneous stacking with other Summit switches • EAPS/ERPS support (~50ms failover) • VEPA and TRILL support • Unified, modular XOS operating system
 <p>7100K-Series High density 10 Gigabit Ethernet data center switch</p>	<ul style="list-style-type: none"> • Data center Top of Rack switch with 24 or 48 1GE and 10GE interfaces • Supports advanced features such as Data Center Bridging (DCB) and Virtual Switch Bonding (VSB) • Identical software features as the S-Series and K-Series modular switches (without CoreFlow2 support) 	<ul style="list-style-type: none"> • High-density, cost-effective 10Gbase-T support • 40GE uplinks • Dynamic policy support • Modular fans with reversible airflow • VSB stacking with 7100G-Series

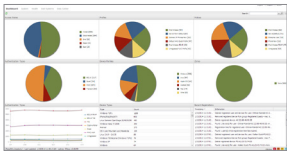
Product Name and Role	Key Values	Key Differentiators
 <p>Summit X670 Cost-effective 10GE ToR data center switch</p>	<ul style="list-style-type: none"> Cost-effective Top of Rack (ToR) switch with and 48 x 10GE fiber interfaces 	<ul style="list-style-type: none"> High density Low latency (less than 710ns) MPLS support Designed to meet NEBS requirements Optional DC power Modular fans with reversible airflow Heterogeneous stacking with other Summit switches EAPS/ERPS support (-50ms failover) Unified, modular XOS operating system
 <p>S-Series Standalone (SSA) Highly intelligent switch for advanced data center or campus edge applications</p>	<ul style="list-style-type: none"> Highly intelligent switch for Top of Rack or 1GE aggregation Entry-level CoreFlow2 switch Highly intelligent campus edge switch for advanced network applications such as Purview Identical software features as the S-Series 	<ul style="list-style-type: none"> Custom ASICs for unique CoreFlow2 support Modular switch capabilities in a fixed platform Flexible airflow options
 <p>Summit X480 High-capacity, stackable intelligent edge switch</p>	<ul style="list-style-type: none"> High-capacity intelligent edge switch with increased capacity and stacking options Up to 512K routing table sizes for Layer 3 routing High-scalability to meet service provider requirements 	<ul style="list-style-type: none"> 10 and 40 GE uplinks Designed to meet NEBS requirements Optional DC power Modular fans with reversible airflow Heterogeneous stacking with other Summit switches EAPS/ERPS support (-50ms failover) Unified, modular XOS operating system
 <p>7100G-Series Versatile 1 Gigabit Ethernet data center and campus edge switch</p>	<ul style="list-style-type: none"> Data Center Top of Rack (ToR) or advanced campus edge switch with 1 GE interfaces Versatile chassis supports 48-port copper, 48-port fiber or 24-ports of each Supports advanced features such as Data Center Bridging (DCB) and Virtual Switch Bonding (VSB) Identical software features as the S-Series and K-Series modular switches (without CoreFlow2 support) 	<ul style="list-style-type: none"> 40GE uplinks Dynamic policy support Extremely cost-effective model supporting 24 copper and 24 fiber on one chassis Modular fans with reversible airflow VSB stacking with 7100K-Series
 <p>Summit X460 Scalable, versatile intelligent edge switch with PoE+ support</p>	<ul style="list-style-type: none"> Scalable, versatile intelligent edge switch with PoE+ support Layer 2 and 3 routing Entry-level MPLS support Entry-level service provider switch 	<ul style="list-style-type: none"> Optional DC power Designed to meet NEBS requirements MPLS Support Modular fans with reversible airflow Heterogeneous stacking with other Summit switches EAPS/ERPS support (-50ms failover) Unified, modular XOS operating system

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 <p>C-Series High-Performance Edge Switch with Dynamic Policy</p>	<ul style="list-style-type: none"> High-performance edge switch with 10/100/1000 and SFP interfaces Highly customizable Layer 3 switch with advanced routing capabilities Supports 10GE uplinks 	<ul style="list-style-type: none"> Dynamic policy support PoE+ support
 <p>B-Series Cost-effective PoE+ Stackable Edge Switch</p>	<ul style="list-style-type: none"> Cost-effective Layer 2 switch with 10/100/1000 interfaces Supports 10GE uplinks Layer 2 switching with basic routing and dynamic policy 	<ul style="list-style-type: none"> Dynamic policy support PoE+ support
 <p>Summit X440 Cost-effective PoE+ Stackable Edge Switch</p>	<ul style="list-style-type: none"> Edge switch with 10/100/1000 copper and fiber interfaces 12, 24 and 48-port models Support for Layer 2 and basic Layer 3 routing PoE+ support Fanless 12-port, non-PoE option available 	<ul style="list-style-type: none"> Fixed power supply with external redundant power supply available DC power available Heterogeneous stacking with other Summit switches EAPS/ERPS support (-50ms failover) Unified, modular XOS operating system
 <p>D-Series Gigabit Ethernet Workgroup L2 Switch with Optional Policy Support</p>	<ul style="list-style-type: none"> Entry-level tabletop edge switch with PoE support Supports 12-ports of 10/100/1000 interfaces Small form factor for installation anywhere Fanless operation for quiet environments 	<ul style="list-style-type: none"> Dynamic policy support PoE support

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 <p>A-Series Fast Ethernet, policy-enabled Layer 2 switch</p>	<ul style="list-style-type: none"> • Cost-effective yet full-featured edge switch with 10/100 interfaces • Supports 24-48 ports • Supports 100BASE-FX 	<ul style="list-style-type: none"> • Dynamic policy support • PoE support
 <p>Summit X430 Entry level access or cost-effective edge switch</p>	<ul style="list-style-type: none"> • Entry-level switch with 10/100/1000 interfaces • Layer 2 switching only • No stacking capability • Runs XOS • Supports 24 or 48 ports 	<ul style="list-style-type: none"> • Fixed power supply • No PoE support • Unified, modular XOS operating system
 <p>800-Series Versatile and cost-effective access switch</p>	<ul style="list-style-type: none"> • Entry-level access switch supporting 10/100 and 10/100/1000 interfaces • Versatile lineup with 8, 24 and 48 port models 	<ul style="list-style-type: none"> • PoE+ support • No dynamic policy support
Mobile Carrier		
 <p>E4G-400 Mobile Backhaul switch for Service Providers</p>	<ul style="list-style-type: none"> • Stackable cell site router with Layer 2 and 3 transport and clock synchronization for service provider mobile backhaul applications 	<ul style="list-style-type: none"> • Stackable • Higher port density • TDM support (only product with E1/T1) • 1588 PTP and SyncE timing support • NEBS Certified • Optional DC power • EAPS/ERPS support (-50ms failover) • Unified, modular XOS operating system
 <p>E4G-200 Mobile Backhaul switch for Service Providers</p>	<ul style="list-style-type: none"> • Cell site router with Layer 2 and 3 transport and clock synchronization for service provider mobile backhaul applications 	<ul style="list-style-type: none"> • TDM support (only product with E1/T1) • 1588 PTP and SyncE timing support • Temperature hardened to 65°C • NEBS Certified • Optional DC power • EAPS/ERPS support (-50ms failover) • Unified, modular XOS operating system

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Identifi		
 <p>Identifi™ Indoor Access Points: AP3705i AP3710i/e AP3715i/e</p> <p>Full range of indoor APs priced to provide Wi-Fi connectivity for any situation. Purpose built for education, healthcare, large venues, manufacturing, hospitality, and challenging RF environments</p>	<ul style="list-style-type: none"> Adapts to customer's business needs by simultaneously supporting bridge@AP, bridge@controller, and route@controller data paths within the same SSID (unique in the industry) Supports high-density of users, APs, and applications such as Bonjour with optimized data paths and role-based QoS and access control WIDS, WIPS, Spectrum analysis, QoS, and role-based access control are built into the network and not bolted-on providing un-parallel visibility, security, and control. 	<ul style="list-style-type: none"> Optimized for high-density deployments as validated in stadiums such as the New England Patriots and Philadelphia Eagles. No traffic bottlenecks - Ethernet ports designed to process Wi-Fi traffic as fast as it comes in. Independent, intelligent APs do not require controller access to provide security, RF management and spectrum analysis. Combines the scalability of a centralized design with the flexibility and performance of a distributed data plane.
 <p>Identifi Outdoor Access Points: AP3765i/e AP3767e</p> <p>Industrial grade access points designed to operate in harsh environments such as warehouses, mines, manufacturing plants, and stadiums.</p>	<ul style="list-style-type: none"> Use these to extend Wi-Fi beyond the building extending Wi-Fi access outdoors. These will still be part of the overall Wi-Fi installation using the same policy and single pane of glass management as the indoor APs. Perfect for stadiums and other outdoor venues. 	<ul style="list-style-type: none"> These are IP65/NEMA4 certified for use in harsh manufacturing environments and severe weather conditions. The AP3767 also comes with 2 x SFP E/N ports for extended distances over fiber.
 <p>Identifi Appliances C25 V2110 C5210</p> <p>Virtual or physical appliances provide role based controls for Wi-Fi users, devices and applications.</p>	<ul style="list-style-type: none"> Flexibility allows appliances to simultaneously control all APs, some APs or allow APs to run independent of appliance. Can be deployed as a managed service where appliances are centralized and APs. geographically distributed Built in high availability is included with sub-one second failover to maintain voice connectivity. 	<ul style="list-style-type: none"> Scales from small branch to large enterprise to datacenter. Full management through the appliance or centralize management with Netsight. Optimized for data convergence (voice, video, and data) Hardware-based encryption acceleration for up to 18Gbps of data capacity

Product Name and Role	Key Values	Key Differentiators
 <p>Identifi Radar</p> <p>Wi-Fi security and spectrum analysis. Simultaneous Wi-Fi access and assessment mode or full time assessment with Guardian mode.</p>	<ul style="list-style-type: none"> Built into the Identifi Wi-Fi solution provides greater RF visibility and control than using a 3rd party solution. Integrated with NetSight for single pane of glass Wi-Fi/wired management. 	<ul style="list-style-type: none"> Flexibility allows the customer to use solution option best suited to their needs: Radar Radar with NetSight Advanced
OneFabric Control Center		
 <p>NetSight</p> <p>NetSight is the heart of the OneFabric™ Control Center family of management and security solutions. NetSight is a single pane of glass management system that provides wired/wireless visibility and control from the data center to the mobile edge</p>	<ul style="list-style-type: none"> A single management system for the entire network providing consistent management across all devices. This saves time and money by eliminating duplication of efforts NetSight is standards based and can easily support SNMP based third party devices in addition to the Extreme family of devices Cut down the time it takes to troubleshoot and manage any network – NetSight provides a graphical and exceptionally easy-to-use interface Enables easy policy enforcement network-wide for QoS, bandwidth, etc. ensuring the availability of today's bandwidth intensive applications 	<ul style="list-style-type: none"> Single management system for the entire network infrastructure - wired, wireless, 3rd party An open and published interface (or API) Future proof – NetSight easily scales from the smallest to the largest network Eliminate manual tasks with built in automation
 <p>Purview™ is a Network-Powered Application Analytics and Optimization Solution</p>	<ul style="list-style-type: none"> Understand application usage to increase productivity and revenue Purview is pervasive across the network - from datacenter → distribution → access edge. No chokepoint in the network Transform unknown or unrelated application data into meaningful business intelligence Ease-of-use; Purview is Integrated with OneFabric Control Center providing a single management system Optimize application performance for improved user experience Detect malicious applications 	<ul style="list-style-type: none"> First Solution to transform the network into a strategic business asset Actionable context-based knowledge about applications, users, locations and devices Over 13,000 open and customizable fingerprints Complements and integrates with other third party management products Massive scalability – Purview works at Terabit speeds and can collect millions of flows per minute without any performance impact to the switch
 <p>Mobile IAM (BYOD)</p> <p>Mobile IAM is "BYOD Done Right," a comprehensive BYOD solution that provides total security, full IT control and predictable network experience for all users.</p>	<ul style="list-style-type: none"> Take control of today's demanding BYOD challenges - Mobile IAM with end-to-end visibility and control over individual users, devices and applications, in multi-vendor infrastructures The flexibility to choose the appropriate access restrictions for guests/contractors, or any other network user based on role, device/OS type, location, time of day, etc. Easy and transparent onboarding for users, cost savings for IT 	<ul style="list-style-type: none"> Centrally manage and control the security posture of all devices connecting to the network, including employee bring your own device (BYOD) Restrict access for guests to public Internet services only or allow more Managed guest access control with sponsorship, SMS verification, pre-registration, and other options Comprehensive dashboard reporting

Product Name and Role	Key Values	Key Differentiators
 <p>Network Access Control (NAC)</p> <p>Extreme NAC is a standards-based, multi-vendor interoperable NAC solution for wired and wireless LAN and VPN users. It provides business-oriented visibility and control over individual users and applications in multi-vendor infrastructures.</p>	<ul style="list-style-type: none"> Provides user identity functionality including discovery, authentication and role based access controls Protects corporate data by proactively preventing unauthorized users, compromised endpoints, and other vulnerable systems from accessing the network Address compliance and regulatory requirements by control access to sensitive data and then providing comprehensive reporting on user activity. Additionally reporting data can be exported to other third party reporting tools Flexibility to choose between virtual and physical NAC appliances to best meet the needs of the business Investment protection - Can be easily deployed in an Extreme only, mixed or non-Extreme environment providing exceptional access control in all cases 	<ul style="list-style-type: none"> Configuration options provide an unparalleled range of choices for fine grained network control including time of day, location, authentication types, device and OS type, and end system and user groups Automated guest access control with sponsorship, SMS verification, pre-registration, and other options Easy integration with third party management tools for MDM, Next Generation Firewall (NGFW), SEIM, IPS and more Ability to link with other business processes such as LDAP and RADIUS



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